

**Meeting of the Central Valley Flood Protection Board
August 26, 2010**

Staff Report – Encroachment Permit

**Sutter Mutual Water Company
Fish Screen Project, Sutter County**

1.0 – ITEM

Consider approval of Permit No. 18580 (see Attachment B).

2.0 – APPLICANT

Sutter Mutual Water Company

3.0 – LOCATION

The project is located west of Robbins at Sacramento River Mile 96.25.
(Sacramento River, Sutter County, see Attachment A)

4.0 – DESCRIPTION

Applicant proposes to install two (72-inch-diameter by 96-inch-long) self-cleaning, retractable fish screens on an existing pumping plant, supported by 22 new 12-inch-diameter STD pile piles and four W12 x 65's on the left (east) bank of the Sacramento River.

5.0 – PROJECT ANALYSIS

The proposed project includes the installation of two 72-inch-diameter by 96-inch-long fish screens and retrieval systems, support structures, control facilities and debris deflector. Approximately 22 new piling will be installed along with support structure beams which will not be attached to the existing intake piping system. Some of the existing intake pipe support system will be replaced so as to easily integrate the new fish screen system into the existing intake system. All new piling will be in line with the existing piling. The fish screens will replace the existing trashracks on the intake pipes.

A debris deflector boom will be provided to deflect floating debris from the intake structure. Staff sees no adverse conditions arising from the installation of this project.

5.1 – Hydraulic Analysis

Hydraulic Analysis not needed because the project is to add minimal additions to an existing pumping plant with insignificant hydraulic impact.

5.2 – Geotechnical Analysis

Geotechnical analysis not needed as pile driving is the only soil penetration adjacent to existing pilings of pumping plant.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- The U.S. Army Corps of Engineers 208.10 comment letter has not yet been received for this application. Upon receipt of a favorable letter and review by Board staff it will be incorporated into the permit as Exhibit A.
- Reclamation District No. 1500 has endorsed this application without conditions.

7.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA determination:

California Department of Fish and Game (CDFG), as lead agency under CEQA, approved the project (Sutter Mutual Water Company State Ranch Bend Fish Screen Project, SCH No. 2010048283) on April 26, 2010 and determined that the project was categorically exempt under Class 4 (CEQA Guidelines Section 15304) covering minor alterations to land.

The Board, acting as a responsible agency under CEQA, has reviewed the CDFG determination and has independently determined that the project is exempt from CEQA under Class 1 (CEQA Guidelines Section 15301) covering minor alteration of existing public or private structures and Class 4 (CEQA Guidelines Section 15304) covering minor alterations to land.

8.0 – SECTION 8610.5 CONSIDERATIONS

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

3. Effects of the decision on the entire State Plan of Flood Control:

The upgrades to the existing pump station are relatively minor and there will be no adverse effects on the State Plan of Flood Control.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

Changes in hydrology could result in the need to adopt higher design water surface elevations for the flood control project. This may require a reassessment of the design water surface elevation which could in turn require that the pump station be elevated.

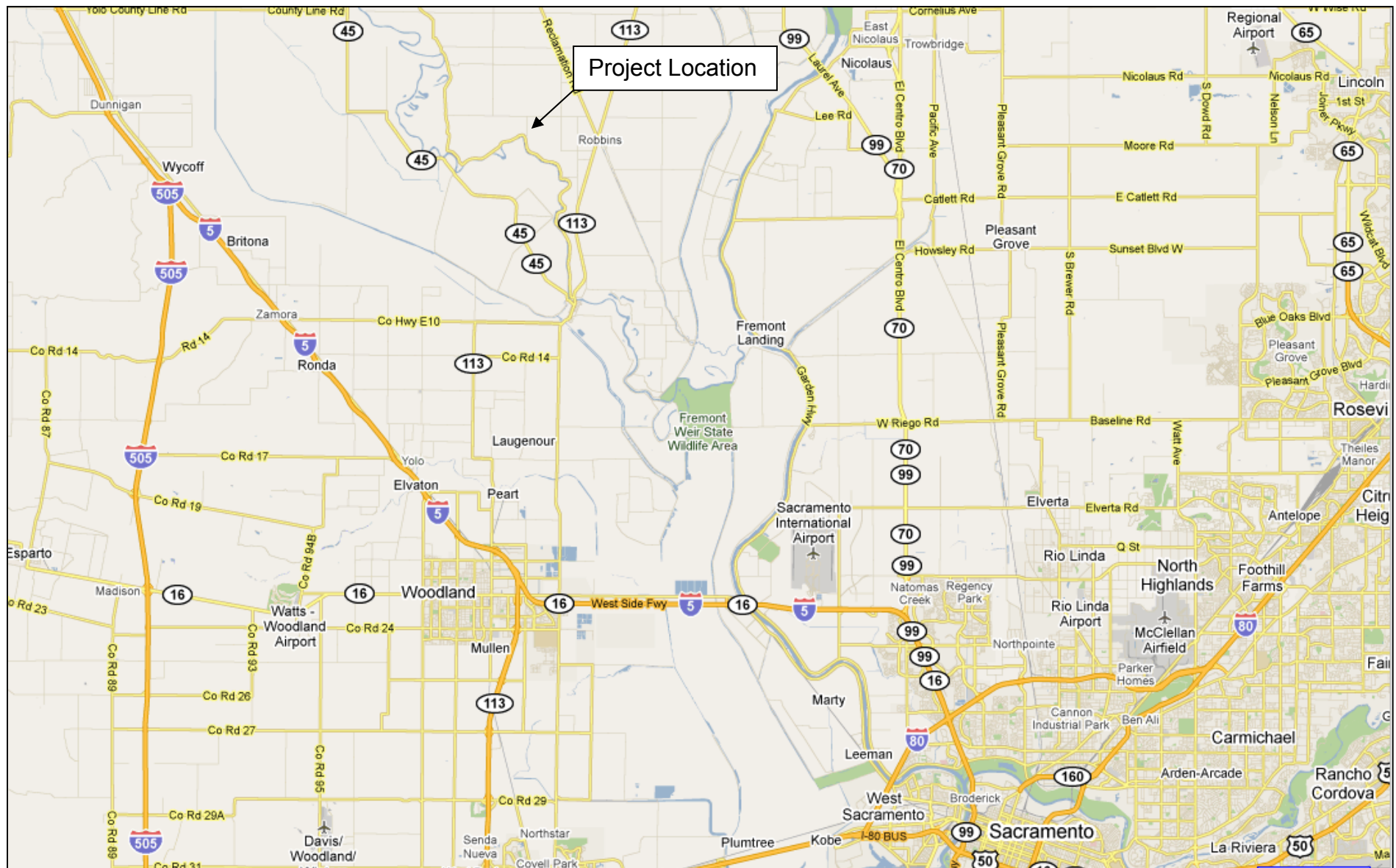
9.0 – STAFF RECOMMENDATION

Staff recommends that the Board determine the project to be exempt from CEQA and approve the permit conditioned upon receipt of a favorable U.S. Army Corps of Engineers comment letter and direct staff to file a Notice of Exemption with the State Clearinghouse.

10.0 – LIST OF ATTACHMENTS

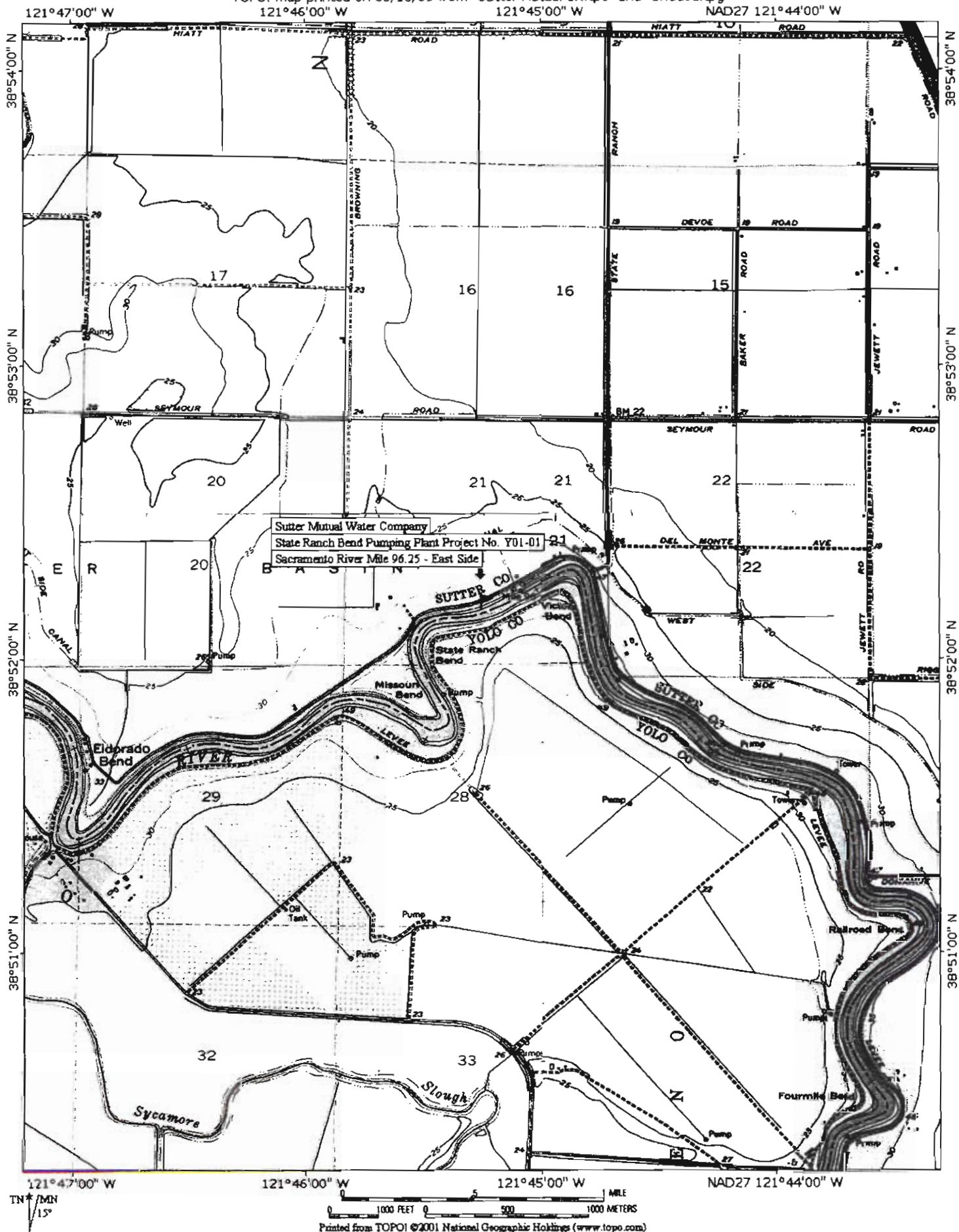
- A. Location Maps and Photos
- B. Draft Permit No. 18580
- C. Design Drawing

Design Review:	Steve Dawson
Environmental Review:	James Herota
Document Review:	Len Marino P.E.



Regional Map

TOPOI map printed on 03/10/09 from "Sutter Mutual SR.tpo" and "Untitled.tpg"



DRAFT

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 18580 BD

This Permit is issued to:

Sutter Mutual Water Company
PO Box 128
Robbins, California 95676

To install two (72-inch-diameter by 96-inch-long) self-cleaning, retractable fish screens on an existing pumping plant, supported by 22 new 12-inch-diameter STD pile piles and four W12 x 65's on the left (east) bank of the Sacramento River. The project is located west of Robbins at River Mile 96.25 (Section 20, T13N, R2E, MDB&M, Reclamation District 1500, Sacramento River, Sutter County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: _____

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 18580 BD

THIRTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Central Valley Flood Protection Board.

FOURTEEN: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources, Reclamation District No. 1500 or any other agency responsible for maintenance.

FIFTEEN: The Central Valley Flood Protection Board, Department of Water Resources, and Reclamation District No. 1500 shall not be held liable for damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

SIXTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

SEVENTEEN: Upon completion of the project, the permittee shall submit as-built drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite LL30, Sacramento, California 95821.

EIGHTEEN: The Central Valley Flood Protection Board, Department of Water Resources, and Reclamation District No. 1500 shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

NINETEEN: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

TWENTY: The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

TWENTY-ONE: The permittee shall be responsible for repair of any damages to the project levee and other flood control facilities due to construction, operation, or maintenance of the proposed project.

TWENTY-TWO: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law.

TWENTY-THREE: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Central Valley Flood Protection Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

TWENTY-FOUR: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-FIVE: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Central Valley Flood Protection Board.

TWENTY-SIX: Cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

TWENTY-SEVEN: Prior to construction the permittee shall install an X, Y, Z axis based coordinate monitoring system to monitor the levee before, during and after all pile driving activities.

TWENTY-EIGHT: In the event existing revetment on the channel bank is disturbed or displaced, it shall be restored to its original condition upon completion of the proposed installation.

TWENTY-NINE: Debris that may accumulate on the permitted encroachment(s) and related facilities shall be cleared off and disposed of outside the floodway after each period of high water.

THIRTY: The project site shall be restored to at least the condition that existed prior to commencement of work.

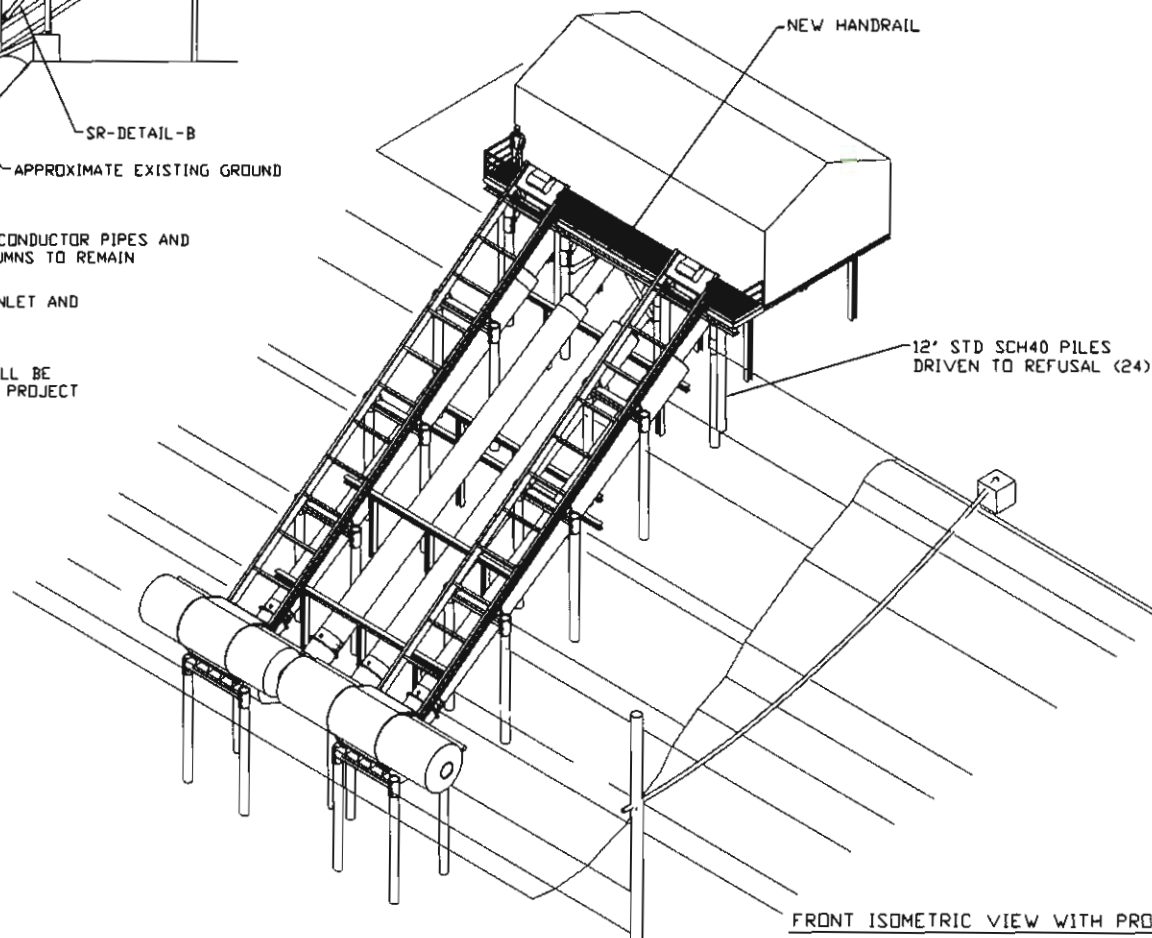
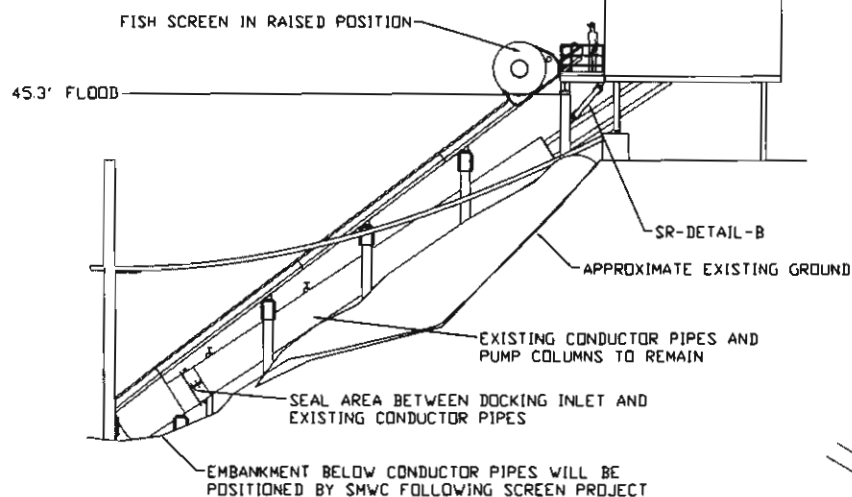
THIRTY-ONE: All debris generated by this project shall be disposed of outside the floodway and off the levee section.

THIRTY-TWO: If the permitted encroachments result(s) in an adverse hydraulic impact, the permittee shall provide appropriate mitigation measures, to be approved by the Central Valley Flood Protection Board, prior to implementation of mitigation measures.

THIRTY-THREE: Any additional encroachment(s) on the levee section, waterward berm or within the floodway require an approved permit from the Central Valley Flood Protection Board and shall be in compliance with the Central Valley Flood Protection Board's regulations (Title 23 California Code of Regulations).

THIRTY-FOUR: The permittee shall comply with all conditions set forth in the letter from the Department of the Army dated August XX, 2010, which is attached to this permit as Exhibit A and is incorporated by reference.

ELEVATION VIEW (RAISED)



NOTE:

- 1) SCREEN IS 304 STAINLESS
- 2) TRACK, DOCKING INLET, TRASH RACK, TRACK SUPPORTS / CLAMPS, AND PLATFORM TO BE EPOXY COATED A36 STEEL.

6	UPDATED	2/14/10	JEC
5	UPDATED	12/17/09	JEC
4	Add Detail Notes	11/2/09	JEC
3	Added cross-brace on piles	10/19/09	JEC
2	Updated	10/16/09	JEC
1	Updated	5/23/09	JEC
REV #	DESCRIPTION	DATE	INITIAL
Designs are property of INTAKE SCREENS INC. and are subject to change without notice.			

STANDARD TOLERANCES
Fractional Dimensions ± 1/32
Decimal Dimensions ± .005



DATE 12/22/08
APPROVED BY DARRYL HAYES
DRAWN BY JACOB CHAPIN
"B" SHEET SCALE NTS

PROJECT: STATE RANCH

DESCRIPTION: STATE RANCH LAYOUT
MATERIAL: MAIN ASSEMBLY DRAWING

DRAWING NUMBER: ISI-SR REV6
USED ON ASSEMBLY: ISI-SR

SHEET NUMBER
3 of 4